



Assumption Parish Operational Situation Summary

- Emergency Management:
 - Parish Emergency Declared – 19 June 2012
 - Extended 30 days on 30 December 2015
 - Extended 30 days on 29 January 2016
 - Extended 30 days on 03 March 2016
 - State Emergency Declared – 3 August 2012
 - LA Hwy 70 Open for traffic
 - Mandatory Evacuation still in effect
 - Security plans in place to secure sinkhole area
 - Parish continues blog to inform residents
 - Texas Brine issuing financial assistance for residents
 - Bayou Corne Incident Command Center - HOTLINE 1-877-281-7311
 - Facilitating the askGOHSEP@la.gov for questions
 - APOEP and Sheriff's Office relocated Command Post to 1424 Hwy 70S
 - Parish Area 2 has been downgraded to a Voluntary Evacuation Zone
 - Will hold Monthly meetings for Residents the first Wednesday of each month



Assumption Parish Operational Situation Summary

- **Public Safety:**

- LSP providing air craft support
- LSP providing HAZMAT support to parish as needed
- LDWF providing air boat support to parish as needed
- No market or recreational hunting or fishing in restricted area
- ~~• LSA Command Post on site~~
- ~~• An office trailer has replaced the GOHSEP vehicle and will serve as a consolidated command post for the Assumption Unified Command~~
- All state agencies currently involved with the event will continue to be in attendance.
- GOHSEP has added a notification widget to their website indicating the current alert level for OG-1 and Hwy 70



Assumption Parish

Operational Situation Summary

Gas Volumes as of 2 Mar

Vent Well Flare Data (24-hr pd Ending 1 pm on 3/1/2016)

Well	Reading Date	Reading Time	Well Operational Status	Flow Total End Date	Start Time	End Time	Time/Hours	Choke Size (1/64")	Dishcharge Orifice (Inch)	Static (PSIG)	Diff. (PSIG)	Diff. (Inch)	Gas Rate (MCF/H)	Gas Rate (MCF/D)	Cumulative Gas Flared (MCF)	Previous Gas Flared (MCF Total)	SIWHP (PSI)	FWHP (PSI)	Comments
ORW-01	3/1/2016	7:15 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,099	1,099	3.5		**Phase 6, monitored: 02-29-16
ORW-02	3/1/2016	7:13 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,680	1,680	3.5		**Phase 6, monitored: 02-29-16
ORW-03	NA		plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 1/27/2015
ORW-04	3/1/2016	8:29 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,093	1,093	44.0		.
ORW-05	NA		plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 1/27/2014.
ORW-06	3/1/2016	6:45 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,097	1,097	3.5		*Phase 5, Monitored: 02-29-16
ORW-07	NA		plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 2/7/2014.
ORW-08	NA		plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 2/5/2014.
ORW-09	3/1/2016	6:41 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,037	1,037	4.0		*Phase 5, Monitored: 02-29-16
ORW-10	3/1/2016	6:46 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	568	568	5.0		*Phase 5, Monitored: 02-29-16
ORW-11	3/1/2016	6:51 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	112	112	2.5		*Phase 5, Monitored: 02-29-16
ORW-12	NA		plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 7/15/2013.
ORW-13	3/1/2016	8:31 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1	1	0.0		*Phase 5, Monitored: 02-29-16
ORW-14	3/1/2016	8:46 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,588	1,588	2.0		.
ORW-15	3/1/2016	7:12 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,531	1,531	3.0		**Phase 6, monitored: 02-29-16
ORW-16	3/1/2016	6:44 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.250	0.00	0.00	0.00	0.00	0.00	199	199	5.0		*Phase 5, Monitored: 02-29-16
ORW-17	3/1/2016	6:49 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	62	62	0.0		*Phase 5, Monitored: 02-29-16
ORW-18	3/1/2016	6:48 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	94	94	21.0		*Phase 5, Monitored: 02-29-16
ORW-19	3/1/2016	6:47 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.125	0.00	0.00	0.00	0.00	0.00	214	214	48.0		*Phase 5, Monitored: 02-29-16
ORW-21	NA		Plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 7/17/15
ORW-22	3/1/2016	7:21 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,063	1,063	3.5		**Phase 6, monitored: 02-29-16
ORW-23	3/1/2016	7:20 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	110	110	5.0		**Phase 6, monitored: 02-29-16
ORW-24	3/1/2016	7:19 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	298	298	15.5		*Phase 5, Monitored: 02-29-16
ORW-27	NA		plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			Well tree valve closed 100% and locked 11-20-2013
ORW-26	3/1/2016	6:39 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	173	173	6.0		*Phase 5, Monitored: 02-29-16
ORW-28	3/1/2016	7:17 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.625	0.00	0.00	0.00	0.00	0.00	28	28	7.5		**Phase 6, monitored: 02-29-16
ORW-29	3/1/2016	7:18 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	59	59	31.0		*Phase 5, Monitored: 02-29-16
ORW-30	3/1/2016	6:38 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.625	0.00	0.00	0.00	0.00	0.00	42	42	5.0		**Phase 6, monitored: 02-29-16



Assumption Parish

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Gas Volumes as of 2 Mar

ORW-31	3/1/2016	6:37 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	13	13	12.0		**Phase 6, monitored: 02-29-16
ORW-32	3/1/2016	7:14 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	90	90	3.5		**Phase 6, monitored: 02-29-16
ORW-33	NA		plugged	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 1/20/2015
ORW-36	3/1/2016	12:28 PM	open	3/1/2016	1:00pm	12:00Pm	24	2.5	0.063	0.10	0.00	3.75	0.01	0.19	5,764	5,763		4.0	.
ORW-37	3/1/2016	8:22 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	247	247	5.5		.
ORW-38	NA		plugged	NA	1:00pm	12:00Pm	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Plugged 2/16/2015.
ORW-39	3/1/2016	6:52 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	105	105	28.0		**Phase 6, monitored: 02-29-16
ORW-40	3/1/2016	6:51 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.125	0.00	0.00	0.00	0.00	0.00	117	117	0.0		*Phase 5, Monitored: 02-29-16
ORW-41	3/1/2016	6:53 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	0	0	0.0		*Phase 5, Monitored: 02-29-16
ORW-42	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0	Disconnected 12/5/2013. Now PMW 19S.
ORW-43	3/1/2016	8:23 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	13	13	0.0		*Phase 5, Monitored: 02-29-16
ORW-46	3/1/2016	8:05 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	868	868	30.0		.
ORW-48	3/1/2016	8:26 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	1,896	1,896	0.0		.
ORW-49	3/1/2016	8:19 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0.00	0.063	0.00	0.00	0.00	0.00	0.00	546	546	48.0		.
ORW-50	3/1/2016	12:32 PM	open	3/1/2016	1:00pm	12:00Pm	24	5	0.063	0.10	0.00	2.44	0.01	0.15	1,571	1,571		4.0	.
ORW-51	3/1/2016	8:20 AM	shut in	3/1/2016	1:00pm	12:00Pm	25	0	0.063	0.00	0.00	0.00	0.00	0.00	78.7	78.71	44.0		.
ORW-52	3/1/2016	8:10 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	289	289	0.0		.
ORW-53	3/1/2016	8:09 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	97	97	50.0		.
ORW-54	3/1/2016	12:41 PM	open	3/1/2016	1:00pm	12:00Pm	24	10	0.063	0.10	0.00	36.00	0.02	0.59	2,599	2,598		2.0	.
ORW-55	3/1/2016	12:21 PM	open	3/1/2016	1:00pm	12:00Pm	24	10	0.250	0.10	0.00	0.79	0.05	1.18	3,595	3,593		0.5	.
ORW-56	3/1/2016	8:11 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	70	70	17.0		.
ORW-57	3/1/2016	12:46 PM	open	3/1/2016	1:00pm	12:00Pm	24	6	0.125	0.10	0.00	6.50	0.04	0.99	3,512	3,511		7.5	.
ORW-58	3/1/2016	7:11 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.063	0.00	0.00	0.00	0.00	0.00	17	17	0.0		*Phase 5, Monitored: 02-29-16
ORW-59	3/1/2016	8:44 AM	shut in	3/1/2016	1:00pm	12:00Pm	25	0	0.063	0.00	0.00	0.00	0.00	0.00	57.64	57.6	4.0		.
OGRW-01	3/1/2016	8:25 AM	shut in	3/1/2016	1:00pm	12:00Pm	25	0	0.063	0.00	0.00	0.00	0.00	0.00	5,245	5,245	0.0		*Phase 5, Monitored: 02-29-16
GOW-9-1	3/1/2016	12:00 AM	shut in	3/1/2016	1:00pm	12:00Pm	24	0	0.125	0.00	0.00	0.00	0.00	0.00	127.64	127.64	21.0		.



Assumption Parish Operational Situation Summary

Gas Volumes as of 2 Mar

Well	Time Data Collected	Tbg Pressure (psig)	Csg Pressure (psig)
BC 2	8:02	2	6
OG 1	8:51	429	815
OG 2	8:49	244	432
OG 3A	8:47	1367	470
TBC 3	8:50	1	0
PMW 004m	NM	NA	NM
PMW 004s	8:21	NA	47
PMW 007m	NM	NA	NM
PMW 007s	8:18	NA	49.5
PMW 008m	NM	NA	NM
PMW 008s	8:32	NA	0
PMW 012m	NM	NA	NM
PMW 015m	NM	NA	NM
PMW 015s	8:34	NA	0
PMW 016m	NM	NA	NM
PMW 016s	8:48	NA	56
PMW 017m	NM	NA	NM
PMW 017s	8:45	NA	54
PMW 018m	NM	NA	NM
PMW 018s	8:15	NA	0
PMW 019s	8:24	NA	0
PMW 020m	NM	NA	NM
PMW 020s	8:12	NA	43

*Note: Cumulative gas flared for OGRW-1 represents combined gas flow from ORW-12 and TBC-RW-1 for all dates preceding March 4, 2013. Cumulative gas flared after March 4, 2013 represents only OGRW-1 (formerly TBC-RW-1).

*Note: Total daily gas flared and cumulative gas flared is based on data through 12pm of previous day

*Note: ORW-42 became a PMW on 10/2/13 ORW-42 is now PMW-019S

*Note: PMW-012S became a ORW on 9/6/13 PMW-012S is now ORW-54

*Note: PMW-018 Flared for 50 MCF on 11-22-13 through flare 6 during the emergency response to mitigate gas kicks developed during well construction

*Note: PMW-018 Flared for 1.53 MCF on 12-3-13 and 12-5-13 for 2.96 MCF for depressurization

*Note: All well pressures are read daily including weekends and holidays with data submitted to conservationorder <conservationorder@LA.GOV> daily.

As of Wednesday, March 02, 2016



Assumption Parish Operational Situation Summary

The State Agency is responsible for oversight of the following activities. Texas Brine and its contractors are performing operational response activities.

- Began quarterly bubble site monitoring (01/05)
- Conducted daily well readings and flare maintenance (daily)
- Conducted the GEM 5000 flare gas field analyses (01/01)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57 and 59 (daily)
- Continued enhanced gas production at ORW-55 (daily)
- Completed monitoring of ORWs in Phase 5 and 6 (01/04)
- Completed monthly transducer data download (12/29, 12/30, 12/31 and 01/01)
- Completed the redevelopment and replaced the transducer on PMW-20S (01/04)
- Began quarterly MRAA EMO groundwater sampling – Pisani lead (01/11 and 01/12)
- Completed the quarterly bubble site monitoring (01/06)
- ICON EMO sampling of Oxy well 2B (01/06)
- Conducted daily well readings and flare maintenance (daily)
- Conducted the GEM 5000 flare gas field analyses (01/08)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57 and 59 (daily)
- Continued enhanced gas production at ORW-55 (daily)
- Completed monitoring of ORWs in Phase 5 and 6 (01/11)
- Completed the redevelopment of ORW-14 (01/06)
- Completed PVW/KGC monthly monitoring
- Completed quarterly MRAA groundwater sampling (01/19)
- Completed weekly outfall sampling (01/13)
- Conducted daily well readings and flare maintenance (daily)
- Conducted the GEM 5000 flare gas field analyses (01/15)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57 and 59 (daily)
- Continued enhanced gas production at ORW-55 (daily)
- Completed monitoring of ORWs in Phase 5 and 6 (01/18)
- Replaced pressure transducers in MRAA-8M and 8S (01/18)
- Completed monthly GP monitoring (01/22)
- Completed weekly outfall sampling (01/20)
- Completed quarterly surface water sampling (01/20)



Assumption Parish Operational Situation Summary

The State Agency is responsible for oversight of the following activities. Texas Brine and its contractors are performing operational response activities.

- Conducted daily well readings and flare maintenance (daily)
- Conducted the GEM 5000 flare gas field analyses (01/22)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57 and 59 (daily)
- Continued enhanced gas production at ORW-55 (daily)
- Installed new groundwater pump at GOW-9-1 (1/22); Started pump on 1/26 however it shut off after only a few hours.
- Completed monitoring of ORWs in Phase 5 and 6 (01/25)
- Completed monthly industrial well sampling (01/27)
- Completed weekly outfall sampling (01/27)
- Completed monthly MRAA manual water level measurements and transducer data download (01/27)
- Observed the ICON EMO cementing of LB-MRAA-2D (01/29)
- Began the observation of ICON EMO perforating, development and sampling of LB-MRAA-2M (02/01 and 02/02)
- Conducted daily well readings and flare maintenance (daily)
- Conducted the GEM 5000 flare gas field analyses (01/29)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57 and 59 (daily)
- Continued enhanced gas production at ORW-55 (daily)
- Completed the monthly ORW transducer data download (01/28 and 01/29)
- Completed monitoring of ORWs in Phase 5 and 6 (02/01)
- Completed the monthly Flare shutdown testing (01/27)
- Shut in ORWs 46 and 55 (01/30 and 01/31) and reopened to flare on (02/01)
- Completed weekly outfall sampling (02/3)
- Completed monthly sampling of MRAA wells (02/5)
- Observed ICON's EMO related activities at LB-MRAA-2 and LB-MRAA-4
- Conducted the GEM 5000 flare gas field analyses (02/05)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57, 59 and GOW-9-1 (daily)
- Continued enhanced gas production at ORW-55 (daily)
- Completed monitoring of ORWs in Phase 5 and 6 (02/05)
- Shut in ORWs 46 and 55 (02/05) and reopened to flare on (02/08)
- Performed weekly visual observation for passive ventilation of structures surrounding 102 Crawfish Stew St. (2/13)
- Conducted berm inspections (daily) Utilized WW#2 to supply OT-9 and OT-10 and OT-GB surface holding pond. Utilized water pumped from the surface of the sinkhole to supplement, as needed. (daily)



Assumption Parish Operational Situation Summary

• *The State Agency is responsible for oversight of the following activities. Texas Brine and its contractors are performing operational response activities.*

- Completed weekly outfall sampling (2/10)
- Observed ICON's EMO related activities at LB-MRAA-2M and LB-MRAA-1D (daily)
- Conducted the weekly GEM 5000 flare gas field analyses (2/12)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57, 59 and GOW-9-1 (daily – except 2/13 and 2/14 – shut-in)
- Continued enhanced gas production at ORW-55 (daily except 2/13 and 2/14 – shut-in)
- Completed weekly monitoring of ORWs in Phases 5 and 6 (2/15)
- Shut-in ORW 46 (2/13 and 2/14) and reopened to flare (2/15)
- Conducted Phase 6 pressure release on ORW 24 and ORW 39 (2/10)
- Completed depletion test on ORW 14 (2/12)
- Weekly transducer download for flowing ORWs (2/10)
- Completed weekly outfall sampling (2/17)
- Observed ICON's EMO related activities at LB-MRAA-2M and T-MRAA-1D (daily)
- Conducted the GEM 5000 flare gas field analyses (2/17)
- Continued monitoring and maintenance for continuous dewatering of ORWs 54, 57, 59 (shut-in on 2/18), and GOW-9-1 (pump failed on 2/19)
- Continued enhanced gas production at ORW-55 (daily – shut in on 2/23 due to weather)
- Completed monitoring of ORWs in Phase 5 and 6 (2/22)
- Installed pump in ORWs 46 on 2/17 for upcoming depletion test
- Completed Phase 4 vent test on ORW-37 (1 month) (2/19)
- Completed Quarterly vent tests at TBC-3, BC-2, PMW-18S, PMW-19S (2/17); PMW-16S and PMW-17S (2/22); PMW-4S, PMW-7S and PMW-20S (2/23)
- Shut down all 3 flares and shut-in all open wells due to weather on 2/23
- Performed daily air monitoring of in-home LEL and H2S detection system.
- Performed weekly visual observation for passive ventilation of structures surrounding 102 Crawfish Stew St. (3/1)
- Conducted daily berm inspections
- Continued daily operation of the LandShark evaporators
- Completed weekly outfall sampling (2/24)
- Observed installation/development/split samples on ICON wells T-MRAA-1D, T-MRAA-1DM, LA-MRAA-4S, LA-MRAA-4SS and LA-MRAA-2S (daily)
- Began semi-annual sinkhole depth survey (2/29 and 3/1)
- Conducted GEM 5000 flare gas field analyses (2/26)
- Conducted monthly flare shut down tests (2/24)
- Conducted weekly flowing ORW transducer data download (2/24) and monthly ORW/PMW transducer data download (2/25 and 2/27)
- Initiated the ORW-46 development test (2/29)

As of Wednesday, March 02, 2016



Assumption Parish Operational Situation Summary

- *The State Agency is responsible for oversight of the following activities. Texas Brine and its contractors are performing operational response activities.*
 - Conducted Phase 5 periodic pressure release on ORW-19 (2/29)
 - Conducted Phase 5 and 6 weekly ORW monitoring (2/29)
 - Completed the monthly geoprobe monitoring and water level measurements (2/24)
 - Conducted required SWPPP inspection of berm system following rain event (2/24)



Assumption Parish Operational Situation Summary

- DHH / Office of Public Health
 - Section for Environmental Epidemiology and Toxicology
 - Air Monitoring Sample Data
 - SEET has received and is analyzing community ambient air sampled 5/2/14, 5/6-7/14, 5/9/14, 5/13-14/14, 5/16/14, 5/20-21/14, 5/23/14, 5/27/14, 5/30/14, 6/3-4/14, 6/6/14, 6/13/14, and 6/17/14 (MultiRAE) and 5/22-27/14 (MAML). SEET will issue a letter to the parish in reference to these findings once the review of the data has been completed.
 - SEET has received and is analyzing sample results for air at bubble sites collected 5/7/14, 5/14/14, 5/21/14, 6/4/14, and 6/17/14 (MultiRAE). SEET will issue a letter to the parish in reference to these findings once the review of the data has been completed.



Assumption Parish Operational Situation Summary

- **DHH / Office of Public Health**
 - Section for Environmental Epidemiology and Toxicology
 - Industrial Water Well Sampling Data
 - No new water well data received during this operational period.



Assumption Parish Operational Situation Summary

- **DHH / Office of Public Health**
 - Section for Environmental Epidemiology and Toxicology
 - Slurry Water Sampling Data
 - No new slurry data received during this operational period.



Assumption Parish Operational Situation Summary

- **DHH / Office of Public Health**
 - Section for Environmental Epidemiology and Toxicology
 - Surface Water at Bubble Sites
 - No new surface water data received during this operational period.



Assumption Parish Operational Situation Summary

Department of Environmental Quality

- Air monitoring for VOC's, oxygen, H2S, and LEL is performed by LDEQ staff on a bi-weekly basis. LDEQ is providing continuous oversight of TBC's air monitoring program.
- LDEQ is providing continuous oversight of TBC's water quality monitoring program in Bayou Corne and Grand Bayou.
- LDEQ participates in UCG and IAP Meetings on a weekly basis.



Assumption Parish Operational Situation Summary

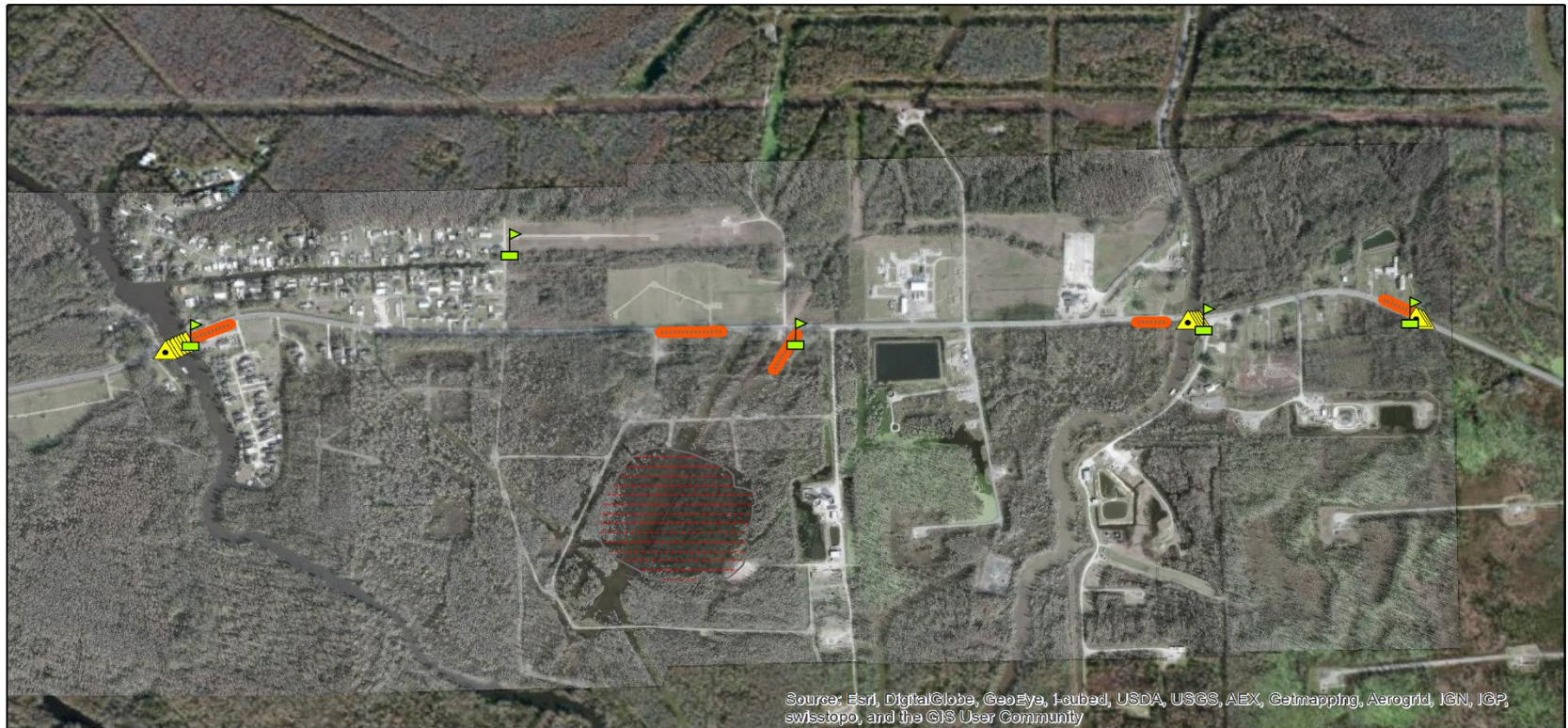
Department of Transportation and Development

- Regular monitoring of roadways and bridges in the area for ground movement
- Developed a traffic contingency plan if needed
- As of **2 Mar 2016** DOTD monitoring equipment has not detected any permanent bridge or highway movements nor any noteworthy trends.
- No significant changes in the surface of Hwy 70 profiler runs
- In an abundance of caution DOTD crews have established a fifth CORS site in the Bayou Corne community. This fifth CORS device was part of the original package, and is not the result of any new developments
- Held stakeholders meeting for Hwy 70 reroute options 15 May
- Performed Hwy 70 profiler run (10/21)
- Performed Hwy 70 profiler run (11/18)
- Swapped out the modem at CORS-5 station. Station is now operational (12/22)
- Performed maintenance on all CORS stations
- Conducted a Profiler run on LA 70 and LA 69 on 18 May 2015
- Held a Public Meeting on proposed Hwy 70 Re-route options 6/17/15
- Published a FONSI ("Finding of No Significant Impact") in regards to the Environmental Assessments performed on proposed Hwy 70 re-route options



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

LA 70 Automated Instrumentation Placement



1 inch = 1,250 feet

Legend



CORS Monitoring Stations



SENSr Bridge Monitoring



SAA Ground Monitoring



Max_Sinkhole_Projection



Assumption Parish Operational Situation Summary

- Department of Transportation and Development (con'td)**

ACTIVITY	STATUS/REMARKS
CORS 1	Installed on Monday, April 1, 2013.
CORS 2	Installed on Tuesday, July 17, 2013.
CORS 3	Installed on Monday, April 8, 2013.
CORS 4	Installed on Tuesday, April 9, 2013.
CORS 5	Installed on Wednesday, December 10, 2014; operational 12/15/2014
ACTIVITY	Reports from the active CORS sites are published daily and provided online at the following FTP site: ftp://mimir.lsu.edu/anonymous:user@mimir.lsu.edu:2123 Web interface account has been created. Credentials for accessing CORS911 sites via web site was distributed on April 29, 2013. No significant movements off baseline have been noted.

SAA 1	Installed April 23, 2013.
SAA 2	Installed April 25, 2013.
SAA 3	Installed July 2, 2013.
SAA 4	Installed April 30, 2013.
SAA 5	Installed April 24, 2013.
SAA GENERAL	Data from each station is being downloaded to DOTD hourly with manual analysis performed periodically. Options to provide reliable cellular communications to each site are being investigated. Automated alerts are being sent to B. Fernandez for situational awareness and action as needed. No significant movements off of baseline noted

SENSR 1	
SENSR 2	
SENSR 3	
SENSR GENERAL	Installed all equipment in April 2013. Training is completed. No significant movements off of baseline noted

HWY 70 REALIGNMENT	SAP Contract No. 4400001862, State Project No. H.010571.1, LA 70 Bypass, Stage 0 Feasibility Study in separate document. Stage 0 meeting was held for possible bypass road on 27 MAR. A stakeholder meeting regarding the potential Hwy 70 bypass road was held on April 11, 2013.
HWY 70 CONTINGENCY PLAN	Developed August 11, 2012 by District 61 .
EMERGENCY COMMUNICATION PLAN	Draft plan developed March 18, 2013; alert roster developed April 10, 2013.

As of Wednesday, March 02, 2016



Assumption Parish Scientific Situation Summary

- In the most recent 24hr reporting period there were 60 MEQs and 0 VLPs (12/30/15)
- In the most recent 24hr reporting period there were 27 MEQs and 0 VLPs (1/6/16)
- In the most recent 24hr reporting period there were 51 MEQs and 0 VLPs (1/13/16)
- In the most recent 24hr reporting period there were 29 MEQs and 0 VLPs (1/20/16)
- In the most recent 24hr reporting period there were 39 MEQs and 0 VLPs (1/27/16)
- In the most recent 24hr reporting period there were 27 MEQs and 0 VLPs (2/3/16)
- In the most recent 24hr reporting period there were 42 MEQs and 0 VLPs (2/10/16)
- In the most recent 24hr reporting period there were 26 MEQs and 0 VLPs (2/17/16)
- In the most recent 24hr reporting period there were 38 MEQs and 0 VLPs (2/24/16)
- In the most recent 24hr reporting period there were 43 MEQs and 0 VLPs (3/2/16)



Assumption Parish Scientific Situation Summary

- **Scientific Workgroup theories of cause:**
 - Salt Dome moving – natural migration of gas
 - Failed cement casing in OXY #3 well
 - Cavity Failure
 - Salt / Caprock falling from top of the cavern
 - Natural
 - Man-made (including penetration into sediments by cavern)
 - Gas storage cavern connections, communications by fractures
 - Low permeability seepage of gas into OXY #3 (source unknown)
 - Regional Tectonic activity (movement on growth faults)
 - A combination of above events
 - Held monthly meeting (conference call) on 2/19/14
 - Quarterly meeting (conference call) on 11/19/14
 - Held Conference Call 8/19/15



Next

Operational Period (2 - 9 Mar 16)

Incident Action Plan

- *The State Agency is responsible for oversight of the following activities. Texas Brine and its contractors are performing operational response activities.*

DNR:

- Texas Brine conducting hydrocarbon removal operations
- Perform oversight of operations at investigatory well, observation/vent well and sink hole (day light hours)
- Staff providing assist Assumption Parish Incident Commander and DEQ with bubble site monitoring, community air monitoring, and in-home monitoring
- Reviewing analysis of water samples from water wells screened in Mississippi River Alluvial aquifer
- Continue source investigation and file reviews
- Coordinate and provide information to science team
- Dome operators proceeding to implement their Shallow Geology, Aquifer, and Caprock Characterization Plan
- CB&I to collect pressure readings from the shallow water Geoprobes
- CB&I continues to evaluate the production of formation gas from the vent wells
- November 12, 2012 emergency order from the Commissioner of Conservation:
 - Homes – Ventilation improvements in unventilated, unoccupied, enclosed spaces
 - Gas Monitors
 - Texas Brine's contractor is Installing pressure monitoring wells with DNR oversight.
 - Develop plan for mitigation problem over area
 - Contain dissolved contamination from flowing into Bayou Corne



Next Operational Period (2 - 9 Mar 16) Incident Action Plan

- *The State Agency is responsible for oversight of the following activities. Texas Brine and its contractors are performing operational response activities.*

DNR (Cont'd)

- Texas Brine contractor to maintain antennas & repeaters for in-home monitoring
- Texas Brine contractor to maintain in-home monitors.
- BRC continues to evaluate data and provide recommended requirements
- ~~Monitoring under slab venting installation~~
- Weekly surveys
- Conduct daily well readings and flare maintenance
- Monitor continuous dewatering of ORWs
- PMWs - 04 and 07 - monitor for safety and security
- Perform weekly outfall sampling
- Perform weekly GEM 5000 flare gas field analyses
- Conduct weekly Phase 5 and 6 ORW monitoring
- Redevelop ORWs-46 and 54
- Complete bi-monthly MRAA transducer data download and manual water level measurements
- Perform repeat vent test on PMW-17S
- Perform Phase 5 periodic pressure release on ORW-29
- Conduct the monthly MRAA well groundwater sampling
- Complete the semi-annual sinkhole depth survey



Next Operational Period (2 - 9 Mar 16) Incident Action Plan

- **DEQ:**

- Continue to conduct oversight of air quality monitoring throughout the operational area and Bayou Corne community.
- Continue to perform air quality monitoring in the community on a bi-weekly basis.
- Continue to conduct oversight of water quality monitoring in Bayou Corne and Grand Bayou.
- Conduct tests as necessary to aid in source/cause identification or on-going assessment of potential impacts.
- Provide oversight of TBC's efforts to assess and compare indicator parameters in water on either side of the sinkhole containment dike.
- Continue to monitor groundwater protection efforts in the area of the sinkhole.



Next Operational Period (2 - 9 Mar 16) Incident Action Plan

- **DHH / Office of Public Health**

- DHH will continue to review and analyze environmental sample data as provided by the Louisiana Department of Environmental Quality (LDEQ), for any chemical findings that would indicate a potential public health risk.
- DHH Safe Drinking Water Program will continue to monitor the incident for any reports of the expansion of the slurry/hole to ensure that water distribution underground piping is not compromised.



Next

Operational Period (2 - 9 Mar 16)

Incident Action Plan

- **DHH / Office of Public Health:**
 - DHH/OPH will continue to participate in meetings with GOHSEP and Assumption Parish to maintain visibility and operational readiness for any potential public health concerns.



Next Operational Period (2 - 9 Mar 16) Incident Action Plan

- **DOTD:**

- Continue daily observation of road and bridges
- Will continue observation and analysis of deformation spots along Hwy 70 in evacuation zone
- Continuous monitoring of Hwy 70 with instrumentation
- Continue observation and analysis of Hwy 69



Next Operational Period (2 - 9 Mar 16) Incident Action Plan

- **Scientific Group:**

- Analyzing groundwater sample analyses
- Evaluate issues as they arise
- Continue to provide information to the UCG
- Anyone can submit information at any time for science team evaluation by sending an email to askgohsep@la.gov
- Additional members added to the team as needed
- Will hold its next Conference Call 11/18 at 2pm
- Will hold a Conference Call 2/24 at 2pm



Assumption Parish Long Range Plan

- **DNR:**
 - Conducting testing of investigatory well to determine cavern condition and root cause
 - Scientific Group conference calls/meetings will be scheduled weekly to review new data and issues that arise
 - Continue source investigation and file review
 - Evaluate results of monitoring data and take necessary action
 - Monitor operations at investigatory, observation/vent well and sink hole (day light hours)
 - Staff on standby to assist incident commander
 - Ensure total remediation of the entire site
 - Continue to pursue landowner access agreements
 - Implement CB&I's Plan of Action
 - Conduct industrial well sampling bi-weekly and bubble sites as reported in general vicinity of operations.
 - Dome operators to identify presence of natural gas and vent as necessary
 - Ensure Texas Brine fully complies with the Commissioner of Conservation's Orders dated 11 Oct 12, Nov 2012, 7 Dec 2012, and 14 Jan 2013.
 - Blue Ribbon Commission will evaluate data collected in order to provide recommendations on risk levels to the Parish
- **DOTD:**
 - Investigating bypass alignment of LA 70 around the Salt Dome
 - Continuous automated monitoring of roadway-bridge movement and subsidence
- **DEQ:**
 - Continue to conduct sampling of air and water in area of operation
 - Continue oversight of ongoing remedial activities
 - Continue to conduct hazard assessment monitoring with APSO in resident homes and properties when requested.